

Computer Science Masterclasses

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Dean A. Standaert

Computer Graphics and
Geometric Modeling Using

Beta-splines



Springer

Computer Graphics Geometric Modeling Using Beta Splines

Max K. Agoston



Computer Graphics Geometric Modeling Using Beta Splines:

Computer Graphics and Geometric Modeling Using Beta-splines Brian A. Barsky,2013-12-20 *An Introduction to Splines for Use in Computer Graphics and Geometric Modeling* Richard H. Bartels,John C. Beatty,Brian A. Barsky,1995-09 As the field of computer graphics develops techniques for modeling complex curves and surfaces are increasingly important A major technique is the use of parametric splines in which a curve is defined by piecing together a succession of curve segments and surfaces are defined by stitching together a mosaic of surface patches *An Introduction to Splines for Use in Computer Graphics and Geometric Modeling* discusses the use of splines from the point of view of the computer scientist Assuming only a background in beginning calculus the authors present the material using many examples and illustrations with the goal of building the reader s intuition Based on courses given at the University of California Berkeley and the University of Waterloo as well as numerous ACM Siggraph tutorials the book includes the most recent advances in computer aided geometric modeling and design to make spline modeling techniques generally accessible to the computer graphics and geometric modeling communities *Computer graphics and geometric modelling using Beta-splines* Brian A. Barsky,1987

Computer Graphics and Geometric Modeling: Implementation and algorithms Max K. Agoston,2004 *Computer Graphics and Geometric Modeling Implementation and Algorithms* covers the computer graphics part of the field of geometric modeling and includes all the standard computer graphics topics **Handbook on Splines for the User** Eugene V. Shikin,Alexander I. Plis,1995-07-14 Splines find ever increasing application in the numerical methods computer aided design and computer graphics areas *The Handbook on Splines for the User* not only provides an excellent introduction to basic concepts and methods but also includes the SplineGuide a computer diskette that allows the reader to practice using important programs These programs help the user to build interpolating and smoothing cubic and bicubic splines of all classes Programs are described in Fortran for spline functions and C for geometric splines *The Handbook* describes spline functions and geometric splines and provides simple but effective algorithms It covers virtually all of the important types of cubic and bicubic splines functions variables curves and surfaces The book is written in a straightforward manner and requires little mathematical background When necessary the authors give theoretical treatments in an easy to use form Through the *Handbook on Splines for the User* introduce yourself to the exciting world of splines and learn to use them in practical applications and computer graphics *Handbook of Splines* Gheorghe Micula,Sanda Micula,2012-12-06 The purpose of this book is to give a comprehensive introduction to the theory of spline functions together with some applications to various fields emphasizing the significance of the relationship between the general theory and its applications At the same time the goal of the book is also to provide new material on spline function theory as well as a fresh look at old results being written for people interested in research as well as for those who are interested in applications The theory of spline functions and their applications is a relatively recent field of applied mathematics In the last 50 years spline function theory has

undergone a wonderful development with many new directions appearing during this time This book has its origins in the wish to adequately describe this development from the notion of spline introduced by I J Schoenberg 1901 1990 in 1946 to the newest recent theories of spline wavelets or spline fractals Isolated facts about the functions now called splines can be found in the papers of L Euler A Lebesgue G Birkhoff J *Computer Graphics and Geometric Modeling for Engineers* Vera B. Anand,1993-02-05 Computer graphics and geometric modeling play a fundamental role in instruction for engineering design It is an acknowledged fact that the computer is needed for data storage and numerical processing Computer aided modeling on the other hand strengthens the engineer s ability to think through a design because it eases the process of establishing both conceptual trade offs at the preliminary design stage and the choice of parts to bracket a specific design Computer graphics allows a full description of an engineering component to be stored in a CAD system This captures both the visual and quantitative aspects of object creation Geometric modeling describes an object by means of mathematical and abstract relationships and focuses on the efficient computer representation of geometry Both are integral parts of the engineering education process This textbook teaches the basic principles and techniques of computer graphics and geometric modeling from the point of view of engineering applications The text is therefore aimed for engineers although some generic computer graphics topics are also covered since they are needed as background information essential to an overall understanding of the material It is designed as a one or two semester course at the junior senior or graduate levels

Spline Functions Larry L. Schumaker,2015-01-01 This book describes in detail the key algorithms needed for computing with spline functions and illustrates their use in solving several basic problems in numerical analysis including function approximation numerical quadrature data fitting and the numerical solution of PDE s The focus is on computational methods for bivariate splines on triangulations in the plane and on the sphere although both univariate and tensor product splines are also discussed The book contains numerous examples and figures to illustrate the methods and their performance All of the algorithms in the book have been coded in a separate MATLAB package available for license The package can be used to run all of the examples in the book and also provides readers with the essential tools needed to create software for their own applications In addition to the included bibliography a list of over 100 pages of additional references can be found on the book s website

Curve and Surface Fitting with Splines Paul Dierckx,1995 Describes the algorithms and mathematical fundamentals of a widely used FORTRAN package for curve and surface fitting with splines *Curves and Surfaces in Geometric Modeling* Jean H. Gallier,2000 Curves and Surfaces in Geometric Modeling Theory and Algorithms offers a theoretically unifying understanding of polynomial curves and surfaces as well as an effective approach to implementation that you can apply to your own work as a graduate student scientist or practitioner The focus here is on blossoming the process of converting a polynomial to its polar form as a natural purely geometric explanation of the behavior of curves and surfaces This insight is important for more than just its theoretical elegance the author demonstrates the value

of blossoming as a practical algorithmic tool for generating and manipulating curves and surfaces that meet many different criteria You ll learn to use this and other related techniques drawn from affine geometry for computing and adjusting control points deriving the continuity conditions for splines creating subdivision surfaces and more It will be an essential acquisition for readers in many different areas including computer graphics and animation robotics virtual reality geometric modeling and design medical imaging computer vision and motion planning BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Virtual Environments and Advanced Interface Design Woodrow Barfield,Thomas A. Furness III,1995-06-01 This sweeping introduction to the science of virtual environment technology masterfully integrates research and practical applications culled from a range of disciplines including psychology engineering and computer science With contributions from the field s foremost researchers and theorists the book focuses in particular on how virtual technology and interface design can better accommodate human cognitive motor and perceptual capabilities Throughout it brings the reader up to date with the latest design strategies and cutting edge virtual environments and points to promising avenues for future development The book is divided into three parts The first part introduces the reader to the subject by defining basic terms identifying key components of the virtual environment and reviewing the origins and elements of virtual environments The second part focuses of current technologies used to present visual auditory tactile and kinesthetic information The book concludes with an in depth analysis of how environments and human perception are integrated to create effective virtual systems Comprehensive and splendidly written Virtual Environments and Advanced Interface Design will be the bible on the subject for years to come Students and researchers in computer science psychology and cognitive science will all want to have a copy on their shelves **Geometric Modeling** Michael E. Mortenson,1997 A comprehensive up to date presentation of the indispensable core concepts of geometric modeling Now completely updated to include the most recent developments in the field Geometric Modeling Second Edition presents a comprehensive discussion of the core concepts of this subject It describes and compares all the important mathematical methods for modeling curves surfaces and solids and shows how to transform and assemble these elements into complex models Written in a style free of the jargon of special applications this unique book focuses on the essence of geometric modeling and treats it as a discipline in its own right It integrates the three important functions of geometric modeling to represent elementary forms i e curves surfaces and solids to shape and assemble these into more complex forms and to determine concomitant derivative geometric elements i e intersections offsets and fillets With more than 300 illustrations Geometric Modeling Second Edition appeals to the reader s visual and intuitive skills in a way that makes it easier to understand its more abstract concepts An extensive bibliography lists many supporting works directing the reader to more specialized treatments of this subject Geometric Modeling Second Edition serves as an invaluable guide to computer graphics and CAD CAM specialists applications designers scientific programmers teachers and students Methods of Shape-preserving Spline Approximation Boris I. Kvasov,2000 This book

aims to develop algorithms of shape preserving spline approximation for curves surfaces with automatic choice of the tension parameters The resulting curves surfaces retain geometric properties of the initial data such as positivity monotonicity convexity linear and planar sections The main tools used are generalized tension splines and B splines A difference method for constructing tension splines is also developed which permits one to avoid the computation of hyperbolic functions and provides other computational advantages The algorithms of monotonizing parametrization described improve an adequate representation of the resulting shape preserving curves surfaces Detailed descriptions of algorithms are given with a strong emphasis on their computer implementation These algorithms can be applied to solve many problems in computer aided geometric design

ACM SIGGRAPH '89 Course Notes ,1989 **Curves and Surfaces for Computer-Aided Geometric Design** Gerald Farin,1993 A book intended for members of the graphics community senior and graduate level students in computer science mathematics and engineering software developers of CAD CAM systems graphics programmers and geometric modeling researchers

Geometric Methods in Computer Vision Baba C. Vemuri,Society of Photo-optical Instrumentation Engineers,1991

Geometric Modeling Hans Hagen,Dieter Roller,2012-12-06 This book is based on lectures presented at an international workshop on geometric modeling held at Hewlett Packard GmbH in Boblingen FRG in June 1990 International experts from academia and industry were selected to speak on the most interesting topics in geometric modeling The resulting papers published in this volume give a state of the art survey of the relevant problems and issues The following topics are discussed Methods for constructing surfaces on surfaces four different solutions to the multidimensional problem of constructing an interpolant from surface data are provided Surfaces in solid modeling current results on the implementation of free form solids in three well established solid models are reviewed Box splines and applications an introduction to box spline methods for the representation of surfaces is given Basic properties of box splines are derived and refinement and evaluation methods for box splines are presented in detail Shape preserving properties the construction of non rectangular box spline surfaces applications to surface modeling and imbedding problems are discussed Advanced computer graphics techniques for volume visualization the steps to be executed in the visualization process of volume data are described and tools are discussed that assist in handling this data Rational B splines an introduction to the representation of curves and surfaces using rational B splines is given together with a critical evaluation of their potential for industrial application

ACM SIGGRAPH 88 ,1988 **Curves and Surfaces in Computer Vision and Graphics** ,1992

Curves and Surfaces in Computer Vision and Graphics II Martine J. Silbermann,Hemant D. Tagare,1992

Computer Graphics Geometric Modeling Using Beta Splines Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Computer Graphics Geometric Modeling Using Beta Splines**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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